

AMENDMENTS TO THE CLAIMS



1. (currently amended) A surge suppression and protection device for use with electrical equipment and devices and data communication lines having ~~a plurality of conductors~~ a first conduction path and a second conduction path, the surge suppression and protection device comprising:

a) ~~at least one set of two coils for each of the plurality of conductors, the two coils~~ a first coil and a second coil disposed in close proximity to one another, ~~a the first coil having a first set of windings~~ winding, ~~a the second coil having a second set of windings~~ winding, the first and second windings placed at an angle to one another, ~~each set of two coils coupled in parallel to one another relative to the plurality of conductors~~ the first coil connected in series with the first conduction path and the second coil connected in series with the second conduction path, and

b) ~~a multitude of surge elements connected in series to each of the set of two coils~~ at least one surge element connected between the first conduction path and the second conduction path.

2. (currently amended) The surge suppression and protection device of claim 1, wherein the first coil ~~first set of windings~~ winding ~~are~~ is disposed at substantially a ninety

degree angle to the second coil ~~second set of windings~~  
winding.

3. (currently amended) The surge suppression and protection device of claim 1, wherein the first coil ~~first set of windings~~ winding ~~are~~ is disposed at a non-parallel angle to the second coil ~~second set of windings~~ winding.

4. (currently amended) The surge suppression and protection device of claim 1, wherein the first coil ~~first set of windings~~ winding substantially ~~surround~~ surrounds the second coil ~~second set of windings~~ winding.

5. (currently amended) The surge suppression and protection device of claim 1, wherein the second coil ~~second set of windings~~ has a top surface and the first coil ~~first set of windings~~ ~~are~~ is disposed upon the top surface of the second coil ~~second set of windings~~ ~~top surface~~ separated by a small air space.

6. (currently amended) The surge suppression and protection device of claim 1, wherein the first coil ~~first set of windings~~ winding ~~are~~ is intertwined with the second coil ~~second set of windings~~ winding.

7. (currently amended) The surge suppression and protection device of claim 1, wherein the multitude of surge elements are chosen from the group consisting of metal oxide varistors, avalanche diodes ~~or~~ and gas tubes.

8. (currently amended) The surge suppression and protection device of claim 7, wherein a ~~pair of metal oxide varistors are~~ varistor is employed for each of the first and second coils.

9. (currently amended) The surge suppression and protection device of claim 1, wherein the electrical equipment and devices are connected to an electrical power line having a phase chosen from the group consisting of single, two ~~or~~ and three phase lines.

10. (original) The surge suppression and protection device of claim 1, wherein the device is connected directly to an AC electrical receptacle.

11. (original) The surge suppression and protection device of claim 1, wherein the device is completely enclosed within a box having a housing.

12. (original) The surge suppression and protection device of claim 11, wherein the box comprises an AC plug mounted on a back side of the housing for inserting within an AC receptacle of a power line and at least one AC receptacle mounted on the box housing such that it is accessible for receiving a plug of an electrical device.

13. (original) The surge suppression and protection device of claim 12, wherein the box further comprises a switch mounted on the housing for providing an on/off toggle for the surge suppression and protection device.

14. (original) The surge suppression and protection device of claim 11, wherein the box comprises a plurality of terminals for hard-wiring electrical equipment or devices or data communication lines directly to the surge suppression and protection device.

15. (currently amended) A surge suppression and protection device for use with electrical equipment and devices and data communication lines having ~~a plurality of conductors~~ a first conduction path and a second conduction path, the surge suppression and protection device comprising:

a) a first and second coil disposed in close proximity to one another ~~coupled in parallel to two of the each of the plurality of conductors~~ the first coil connected in series with the first conduction path and the second coil connected in series with the second conduction path, ~~the first coil having a first set of windings, the second coil having a second set of windings,~~ windings of the first coil and windings of the second coil windings placed at an angle to one another,

b) a ~~multitude~~ plurality of metal oxide varistors connected ~~in series to each first and second coil~~ between the first conduction path and the second conduction path.

16. (currently amended) The surge suppression and protection device of claim 15, wherein the ~~first coil first set of~~ windings of the first coil are disposed at a ninety degree angle to the ~~second coil second set of~~ windings of the second coil.

17. (currently amended) The surge suppression and protection device of claim 15, wherein the windings of the first coil ~~first set of windings~~ substantially surrounds the windings of the second coil ~~second set of windings~~.

18. (currently amended) The surge suppression and protection device of claim 15, wherein the second coil ~~second set of windings~~ has a top surface and the first coil ~~first set of windings~~ is disposed upon the top surface of the second coil ~~second set of windings top surface~~ separated by a small air space.

19. (currently amended) The surge suppression and protection device of claim 15, wherein the windings of the first coil ~~first set of windings~~ are intertwined with the windings of the second coil ~~second set of windings~~.

20. (currently amended) The surge suppression and protection device of claim 15, wherein the electrical equipment and devices are connected to an electrical power line having a phase chosen from the group consisting of single, two ~~or~~ and three phase lines.

21. (original) The surge suppression and protection device of claim 15, wherein the device is completely enclosed within a box having a housing.

22. (original) The surge suppression and protection device of claim 21, wherein the box comprises an AC plug mounted on a back side of the housing for inserting within an AC receptacle of a power line, at least one AC receptacle mounted on the housing such that it is accessible for receiving a plug of an electrical device and a switch mounted on the housing for providing an on/off toggle for the surge suppression and protection device.

23. (original) The surge suppression and protection device of claim 21, wherein the box comprises a plurality of terminals for hard-wiring electrical equipment or devices or data communication lines directly to the surge suppression and protection device.